PHENIX Technical Support 2006

PHENIX
WEEKLY PLANNING

1/19/06

Don Lynch

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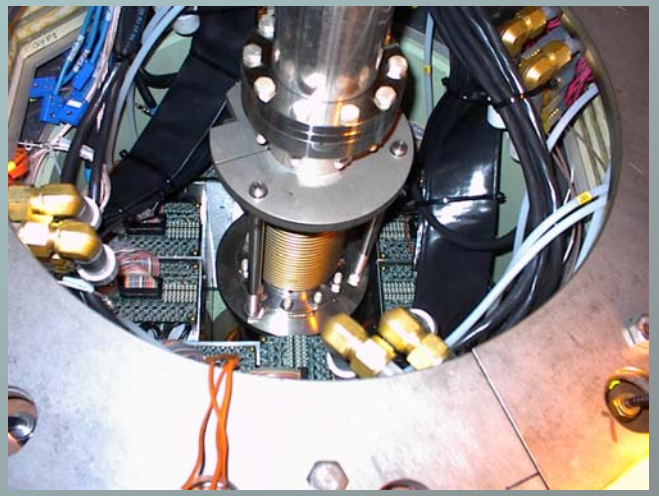
Prep Schedule for Run 6

- BBC N&S dried, tested re-installed, final tested **[DONE]**
- MuTr FEE and anode purge lines dried **[DONE]**
- MuTr HV & LV repairs and tests **[DONE]**
- Install Lampshades on MMS **[DONE]**
- Receive MPC South **(Received 1/8/06)**
- Prepare EC for move to IR (carpenters) **[DONE]**
- Re-install seismic restraints on WC **[DONE]**
- Prepare MPC South (install LED's, bench elec. tests) **[DONE]**
- Uninstall TOF West Installation platform **[DONE]**
- Install MPC South **[DONE]**
- Install HBD rack (lower only) **[TODAY]**
- Move MUID collar to IR **[DONE]**
- Install MPC cable tray **[DONE]**



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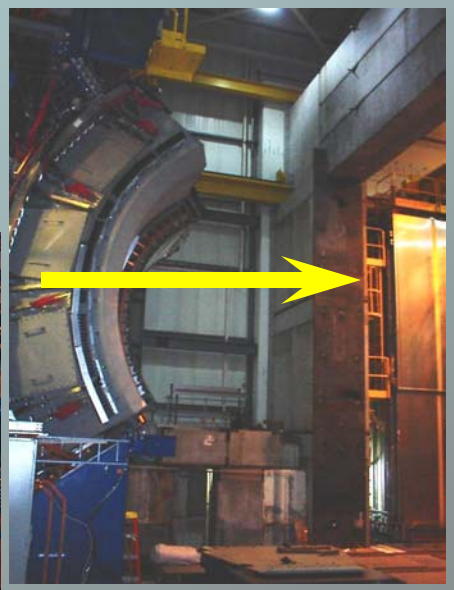
Prep Schedule for Run 6

Week of Jan. 17 – Jan. 20, 2006 (MLK Holiday 1/16/06)

- Complete CM area HBD plumbing
- Remove upper HBD I-beams, use fg unistrut for now **[DONE]**
- Continue MPC South installation
- EC roll in [Today] Carpenters to do platforms
- Start pink sheets



Week of Jan. 23 – Jan. 27, 2006

- CM area sweep for magnet test
- Magnet tests (blue sheets)
- Continue pink/blue sheets
- Connect EC Services
- Continue MPC South installation

Week of Jan. 30 – Feb. 3, 2006

- Install shield wall
- Complete MPC South installation
- Continue Pink sheet/ Blue sheets
- Move MMS North
- Install MUID collar
- Install Beam Loss Monitor
- DC repairs

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Prep Schedule for Run 6

Week of Feb. 6 – Feb. 10, 2006

- RXNP magnet tests
- Install plug door
- Start of PHENIX watch shifts
- Start flammable gas flow
- Blue ring ready for beam Feb. 6, limited IR access
- All up commissioning
- Start of Run Party

Week of Feb. 13- Feb. 17, 2006

- Yellow ring ready for beam
- All up commissioning

Week of Feb. 21 – Feb. 24, 2006 (Pres. Day Holiday 1/20/06)

- Start of run shifts

Week of Feb. 27 – Mar. 4

- Start physics runs

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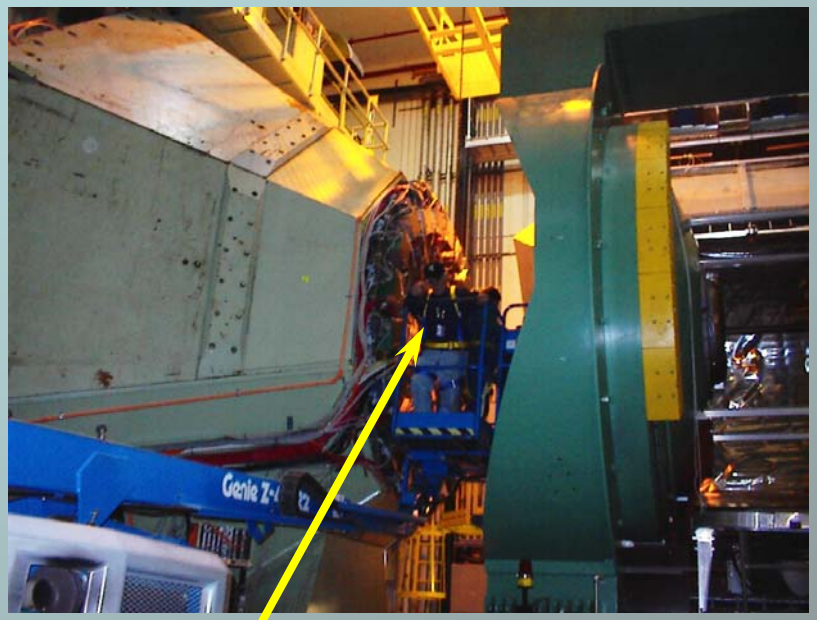
MPC Installation

Lower wedge support tool



Sal: "Oh darn, the last 2 modules won't fit!
salutes the design

Mickey: " Let's stare at
Them for a while and
Then maybe they'll be
O.K."

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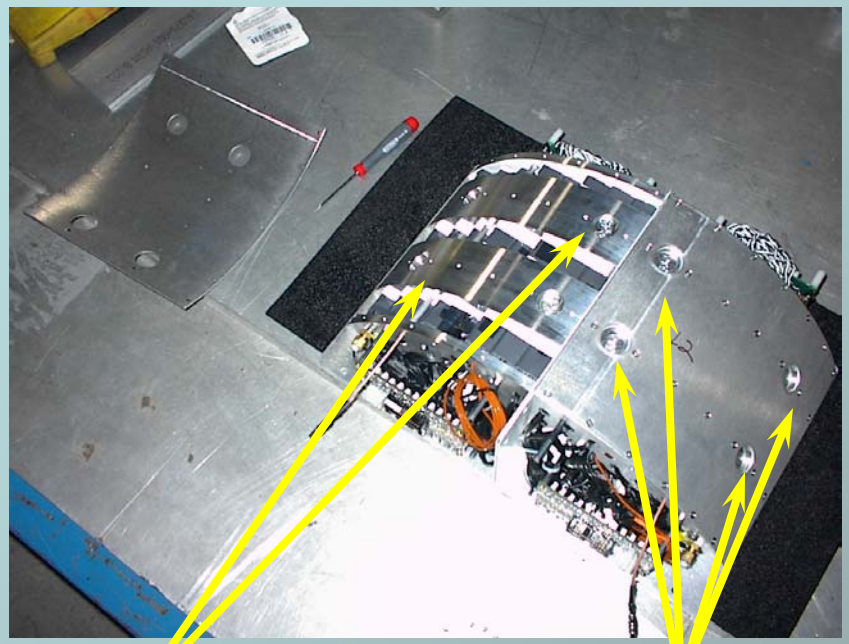
MPC Installation



Problem: Individual detector modules when wrapped were over tolerance. This caused the internal ribs to be pushed outboard causing the sliding buttons to be too far out radially. All of the 8 segments were over tolerance in their external dimensions using up all of the "wiggle room" needed to install the 8 modules per the procedure.

Solution: disassemble the last 2 segments and remove slide buttons, the ribs and the individual detector modules. Install the empty segment shells, now light enough and flexible enough to get into a "force fit" space. Reassemble the individual modules and electronics connections "in place", leaving out the slide buttons and ribs.

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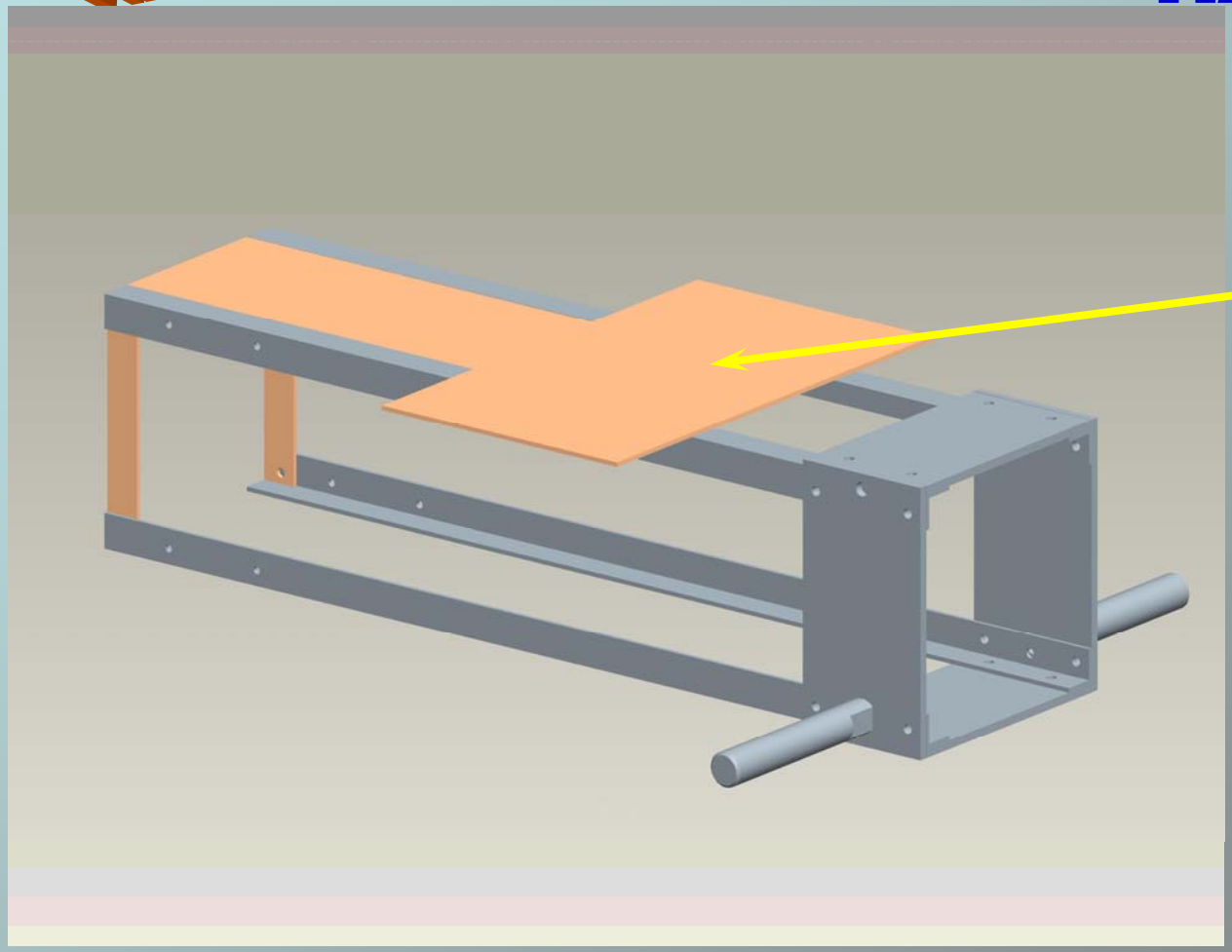
MPC Installation Fixture



Modifications to installation tool to support top 2 wedges during installation. This tool wasn't used. Last 2 modules were Disassembled and installed piece by piece. In the end everything just fit with zero room to spare.

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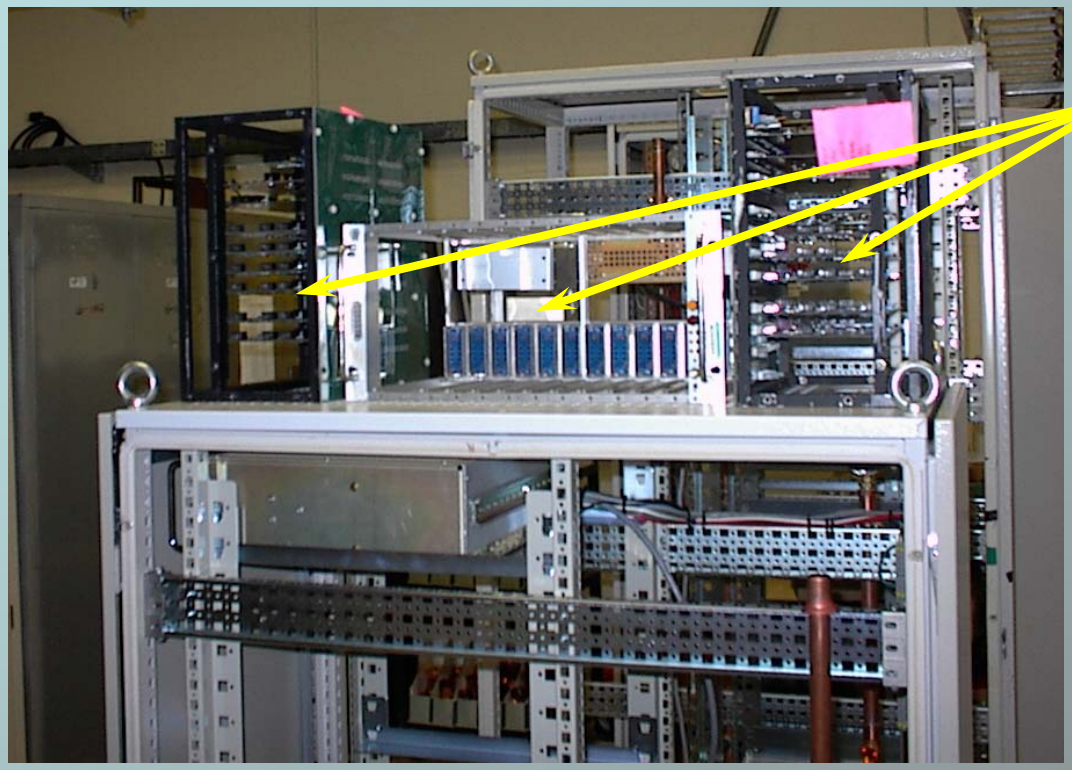
MPC Installation



MPC electronics to be on top of MuTr rack on eyebrow

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HBD Electronics

HBD low voltage and signal electronics rack (located on east-central pedestal)

HBD High Voltage Rack (located on Bridge)

Both Racks to be installed prior to Run 6 start??

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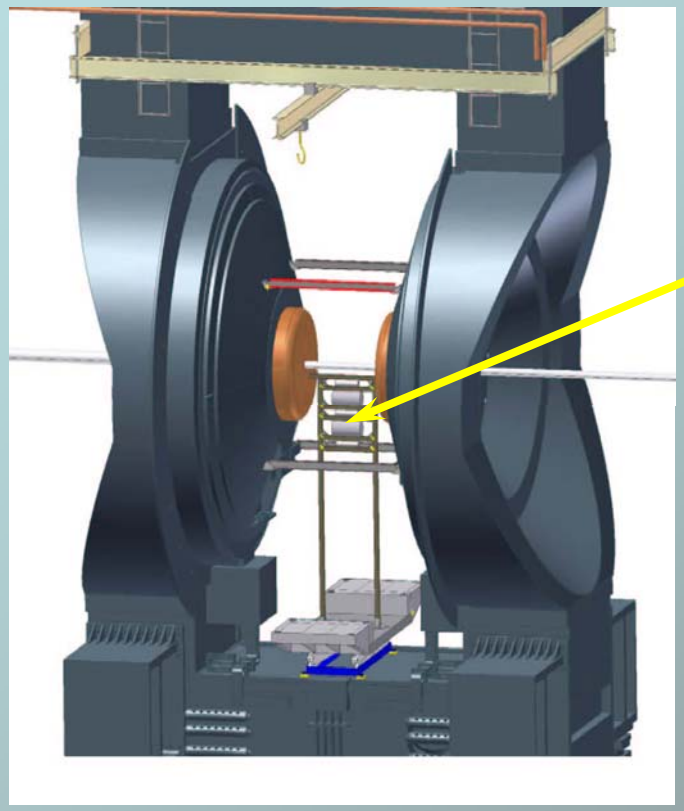
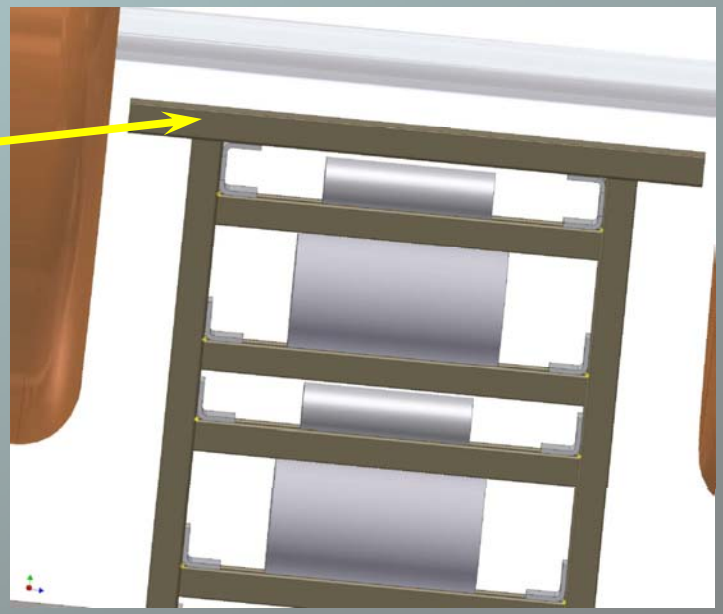
Beam Loss Monitors



BLM Stand with BLM's and Chipmunks



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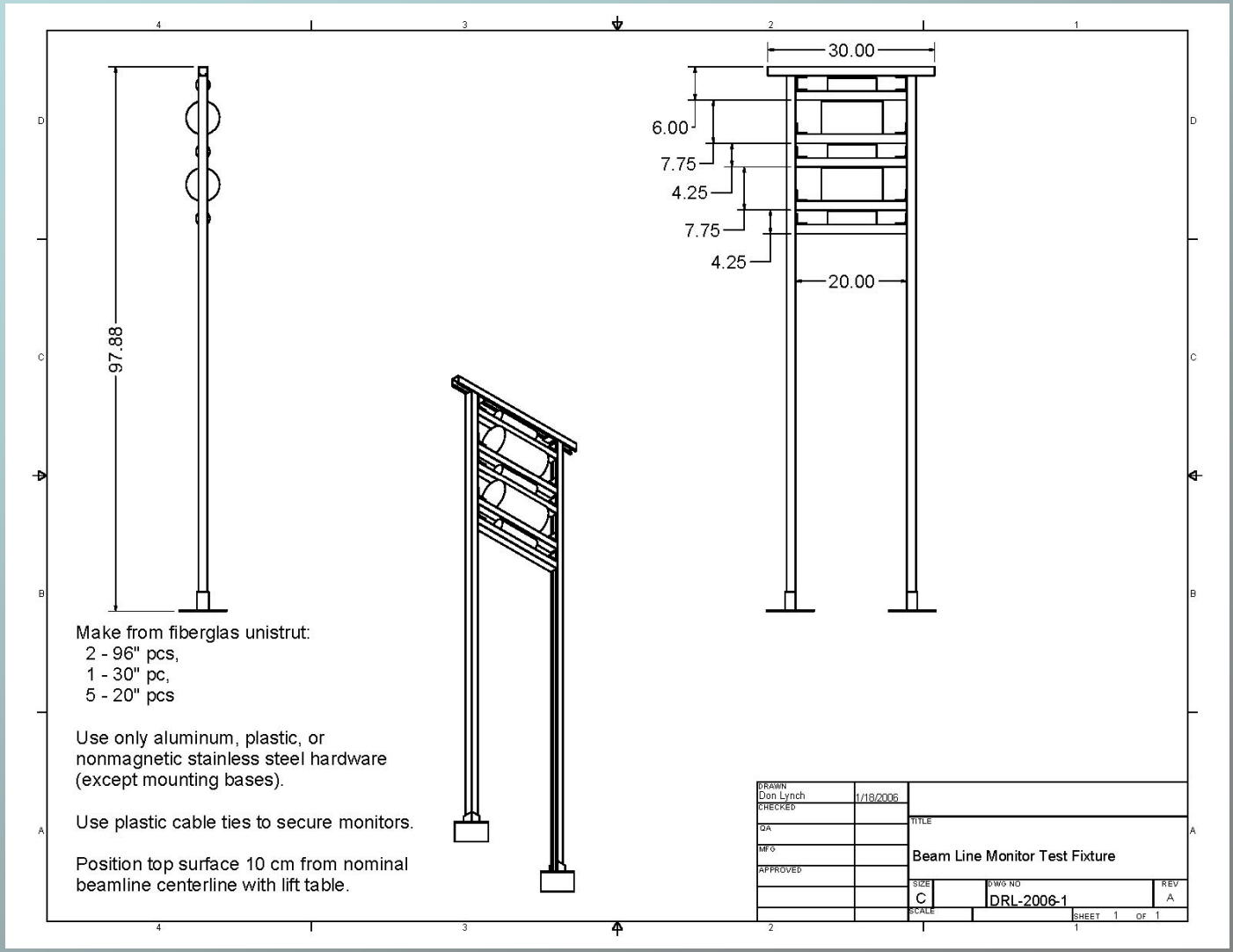
Revised BLM support design



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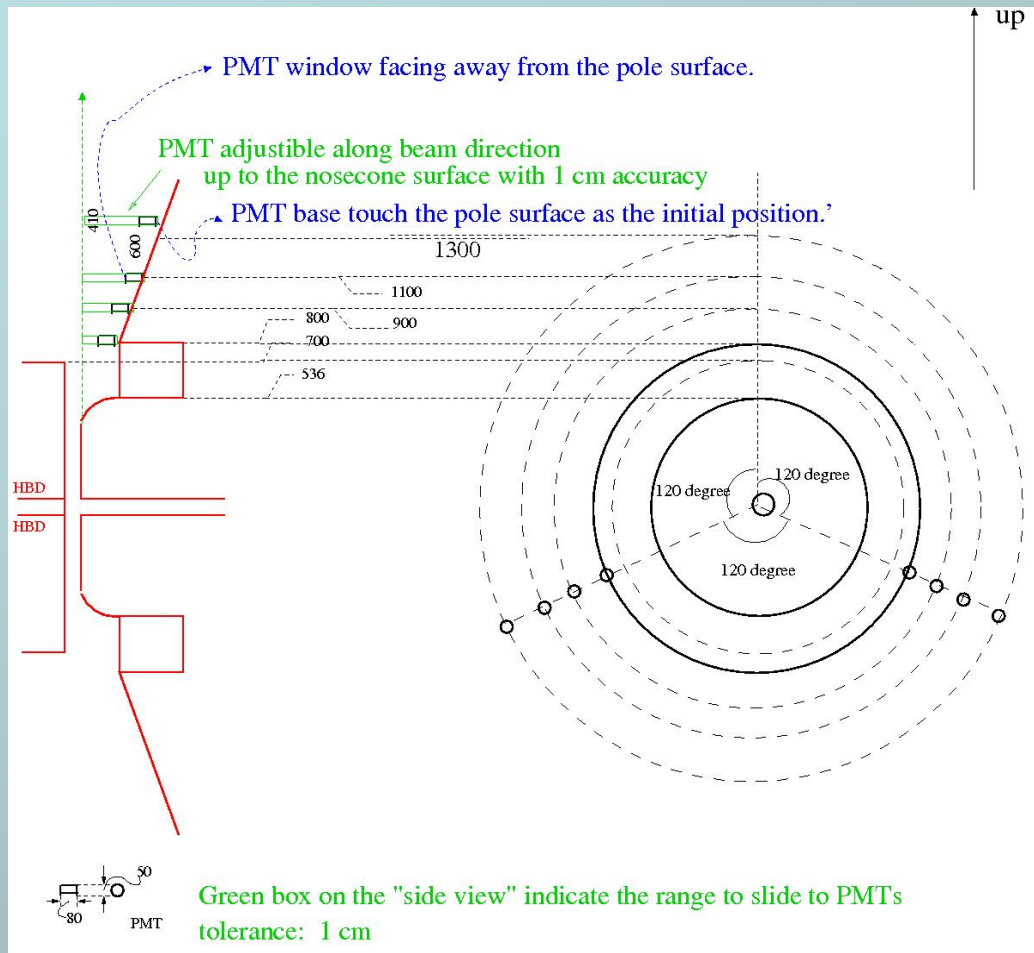
RXNP Magnet Field Tests



PMT radial position in south pole:

* 80, 90, 110, 130 cm
* 2 branch located at +/−120 degree relative to the UP direction

PMT radial position in North pole:

* 90, 110, 130 cm
* 2 branch located at +/−120 degree relative to the UP direction

The plot on the left is an illustration for south

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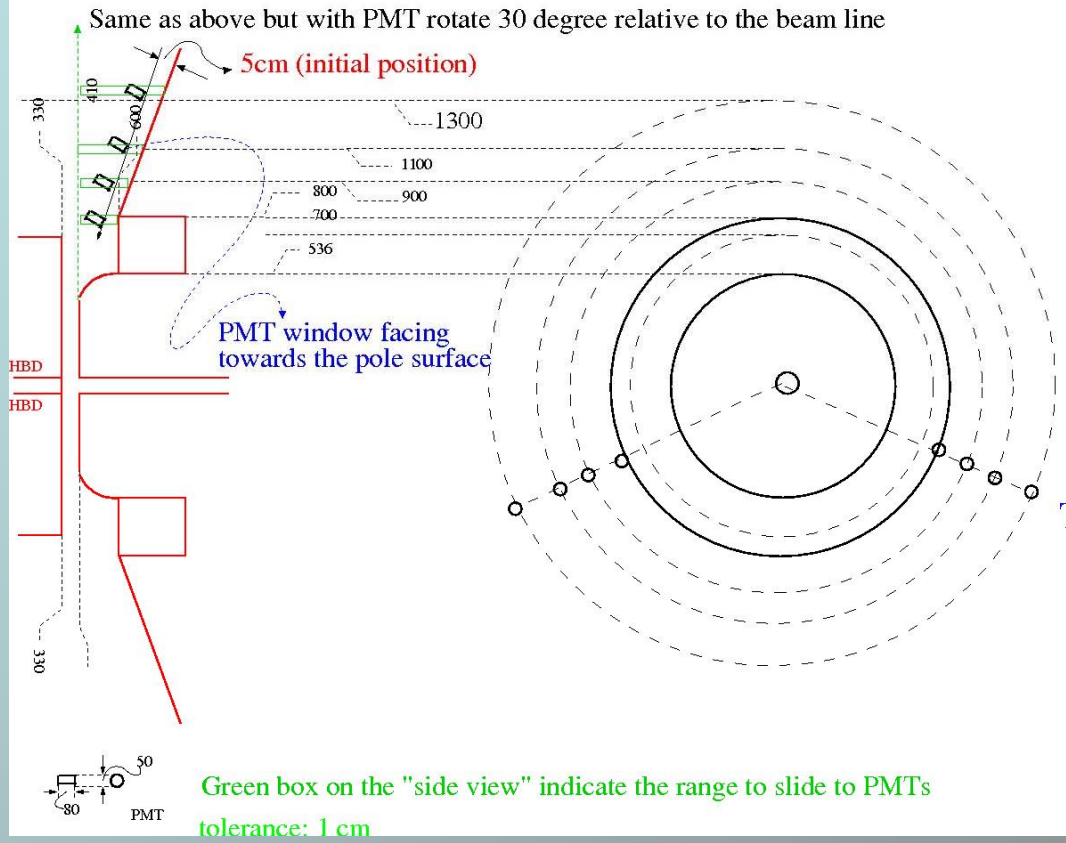
RXNP Magnet Field Tests



Green box on the "side view" indicate the range to slide to PMTs

tolerance: 1 cm

PMT radial position in south pole:

* 80, 90, 110, 130 cm
* 2 branch located at +/−120 degree relative to the UP direction

PMT radial position in North pole:

* 90, 110, 130 cm
* 2 branch located at +/−120 degree relative to the UP direction

The plot on the left is an illustration for south

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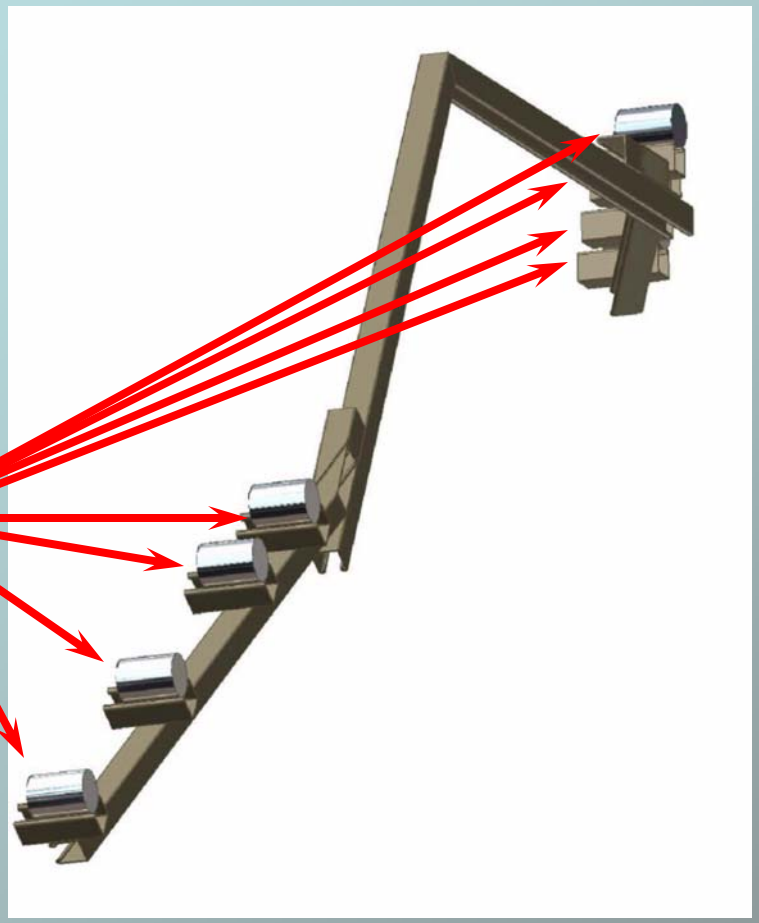
RXNP Magnet Field Tests



RXNP Fixture Preliminary (more structure to be added)

Made from fiberglas unistrut with precision cut angles. To be supported from lower HBD I-beams

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Other Projects

TOF West

- Seismic restraints reinstalled
- Scaffold moved to top of bridge
- No further work until next shutdown

HBD

- All gas work inside IR to be completed prior to end of shutdown
- Will need new He bags
- Plan for installation of ½ final detector late in run 6 using lower rack only
- Plan B – install prototype during run 6

Bridge Utilities

- No water until next summer. Shutoff valves to be closed and posted until manifolds are tested

MPC North

- New fixtures based on lessons learned from south installation

RXNP

- Magnetic field tests??

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C-A Tasks

Prior to Run 6

- Install access platforms from EC top north and MMS (Hold off until next summer ??)
- Magnet tests (Blue sheets)
- Build Shielding wall
- Remaining blue sheets

Postponed Shutdown 2006

- Replace emergency fan louvres
- Rewire/add IR ceiling lights on emergency power
- Replace WC sliding platform hoisting cables
- Analyze/balance rack water distribution
- Mixing house exhaust fan maintenance

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Safety Recall

Office of Environment, Safety and Health
Data Collection Sheet

Fall Protection - Stop Use and Replace Notice

Tracking Number	Source of Issue	Source Tracking Number
DCS 1015	Manufacturer's Notice	N/A

THE FULL TEXT OF A MANUFACTURER'S NOTICE FOLLOWS:

To: Miller Fall Protection End-Users
From: Miller Fall Protection
Date: December 12, 2005
Subject: Stop Use and Replace Notice

Stop U... Replace N...
Imme... Rec...

Please read, review and follow the instru... ully.

In an on-going effort to ensure that Miller offers the safest fall ... investigated an issue reported by one of our customers involving ... reveal that during the period of August 2003 though August 2005 ... caused improper assembly of an internal component. Originally it w... performance. In August 2005, a new manufacturing process was ... Our recent investigation now shows that the assembly process used ... in the remote possibility of the unit functioning improperly in a fall. ... customers' safety and confidence is our highest priority. Given that ... manufactured between August 2003 and August 2005.

Products Included in this Notice:

Miller MiniLite Fall Limiter	Titan Fall Limiter	...m Models		
FL11 (All Models)	TFL (All Models)	02...	04...47/11FT	9038/
FL11CMK/		020101/	040184/	SRFS11-
FL3M/11FT-AUS		030102/11FT	040201/11FT	2/FTBL
		030281/13FT	050114/11FT	

Manufacture Dates: August 2003 – August 2005

This notice only affects the model numbers listed above and manufactured within the specified dates. Miller and Titan models manufactured outside of these dates are **not** affected. **No** other Miller self-retracting lifelines are affected.

Helping the field succeed with safe and reliable operations.

Data Collection Sheet

Tracking Number: DCS 1015

Please take the following steps immediately:

1. Remove from service all Miller MiniLite (FL11) and Titan Fall Limiter (TFL) models listed above and manufactured between August 2003 and Aug... ...te of manufacture (mm/yy) and model number are located on the product ...(
2. Contact the M... F... ...nt at 800-873-5242 to indicate that you ... ...be placed at that time with the Technical ...

...y of the following:

...or ...
...ll Li...
...RW...
...sh... ...a... ...ingle leg, 6 ft. length)

(... ...duct Catalogs for specific model descriptions.)

To enter your replacement order, please provide the following:
(A) Model number, serial number, date of manufacture for each affected unit. (Refer to figure above)
(B) Replacement product requested.
(C) Shipping instructions, i.e., company name, address, phone number, etc.

4. We must confirm affected units are removed from service. In order to do so, we request that you peal off the labels from the unit(s) being replaced, cut off the snap-hook and mail the labels to:

Miller Fall Protection
Engineering Technical Services Department
1345 15th Street
Franklin, PA 16323

We apologize for any inconvenience this may have caused. We also want to assure you that Miller has a 60-year tradition of manufacturing high-quality fall protection products. Our extensive line of Self Retracting Lifelines has a superior performance record and this Stop Use Order should not cause concern relative to our other products – in fact, this action demonstrates our concern and that our customers' safety is our highest measure.

Questions concerning this issue should be directed to Mark Petts of the Office of Analytical Studies (EH-32) by telephone at (301) 903-2414 or by e-mail at mark.petts@eh.doe.gov.

Helping the field succeed with safe and reliable operations.

Not Used At PHENIX

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PHENIX Engineering & Tech Support Web Pages

Links for weekly planning meeting slides, long term planning and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

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